

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	09/543,750	SERRET-AVILA, XAVIER
	Examiner	Art Unit
	Christopher J Brown	2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS**. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 8/12/2004.
2.  The allowed claim(s) is/are 3-15,26,31-35,45,47,53,55-68 and 71-74.
3.  The drawings filed on 4/05/2000 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

**DETAILED ACTION*****Allowable Subject Matter***

1. Claims 3-15, 26, 31-35, 45, 47, 53, 55-68, and 71-74 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Gennaro teaches authenticating a data stream before the entire file is received. Gennaro teaches a progression of check values. Gennaro teaches a root check value.

Fraser teaches encryption and decryption of streaming data.

Schneier teaches the N-hash function which generates check values being derived from at least one other check value in a progression.

**Gennaro, Fraser, and Schneier, alone or in combination do not teach:**

A hashing a combination of the first hash value and a first verification value to obtain a second verification value, wherein the first verification value is derived, at least in part from a hashed portion of the data block and a third verification value.

A hashing a combination of the second hash value and a third verification value to obtain a fourth verification value wherein the third verification value is derived at least in part from the second verification value.

A first input derived in part from a third portion of block content.

Obtaining a second calculated check value by performing the predefined operation on a combination of (i) a value derived from the second block of data, and (ii) the fourth check value.

Inserting error-check values into the block of data, each error-check value being inserted in proximity to a portion of the block of data to which it corresponds, and each error-check value being operable to facilitate authentication of a portion of the block of data and of a check value in the progression of check values.

### ***Conclusion***

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J Brown whose telephone number is (571)272-3833. The examiner can normally be reached on 8:30-6:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (571)272-3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher J. Brown

TECHNOLOGY CENTER 2100  
SUPERVISORY EXAMINER  
1/17/2014  
GREGORY MORSE

GREGORY MORSE  
SUPERVISORY EXAMINER  
TECHNOLOGY CENTER 2100

